

Amendments to the Claims.

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A m~~M~~ethod of producing a radiolabelled gallium complex by reacting a Ga^{3+} radioisotope with a macrocyclic bifunctional chelating agent characterised in that the reaction is carried out using microwave activation at 80 to 120 W for 20 s to 2 min ~~and wherein the~~.
2. (Currently amended) The m~~m~~ethod according to claim 1 wherein the Ga^{3+} radioisotope is selected from the group consisting of $^{66}\text{Ga}^{3+}$, $^{67}\text{Ga}^{3+}$ and $^{68}\text{Ga}^{3+}$.
3. (Currently amended) The m~~m~~ethod according to claim 1 wherein the Ga^{3+} radioisotope is $^{68}\text{Ga}^{3+}$.
4. (Cancelled)
5. (Currently amended) The m~~m~~ethod according to claim 1 wherein the chelating agent comprises hard donor atoms, preferably O and N atoms.
6. (Cancelled)
7. (Currently amended) The m~~m~~ethod according to claim 1 wherein the ~~chelating agent is a~~ bifunctional chelating agent comprises ~~comprising~~ a targeting vector selected from the group consisting of proteins, glycoproteins, lipoproteins, polypeptides, glycopolypeptides, lipopolypeptides, peptides, glycopeptides, lipopeptides, carbohydrates, nucleic acids, oligonucleotides or a part, a fragment, a derivative or a complex of the aforesaid compounds and small organic molecules.

8. (Currently amended) The mMethod according to claim 7 wherein the target vector is a peptide or oligonucleotide.
9. (Currently amended) The mMethod according to claim 1 wherein the microwave activation is carried out at ~~80 to 120 W~~, preferably at 90 to 110 W.
10. (Currently amended) The mMethod according to claim 1 wherein the microwave activation is carried out for ~~20 s to 2 min~~, preferably for 30 s to 90 s.
11. (Currently amended) The mMethod according to claim 3 wherein the $^{68}\text{Ga}^{3+}$ is obtained by contacting the eluate from a $^{68}\text{Ge}/^{68}\text{Ga}$ generator with an anion exchanger and eluting $^{68}\text{Ga}^{3+}$ from said anion exchanger.
12. (Currently amended) The mMethod according to claim 11 wherein the $^{68}\text{Ge}/^{68}\text{Ga}$ generator comprises a column comprising titanium dioxide.
13. (Currently amended) The mMethod according to claim 11 wherein the anion exchanger comprises HCO_3^- as counterions.
14. (Currently amended) The mMethod according to claim 11 wherein the anion exchanger is an anion exchanger comprising quaternary amine functional groups, or the ion exchanger is a anion exchange resin based on polystyrene-divinylbenzene.
15. (Currently amended) The mMethod according to claim 16 for the production of ^{68}Ga -radiolabelled PET tracers.
16. (Withdrawn) Method according to claim 11 wherein the eluting $^{68}\text{Ga}^{3+}$ is in the picomolar to nanomolar range after the elution, and more preferably in a nanomolar to micromolar level.